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United States
Department of
Agriculture

Soil
Conservation
Service

Boise,
Idaho



Idaho Water Supply Outlook

June 1, 1988

DEC 27 1987
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Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are terms reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Idaho Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

Issued by

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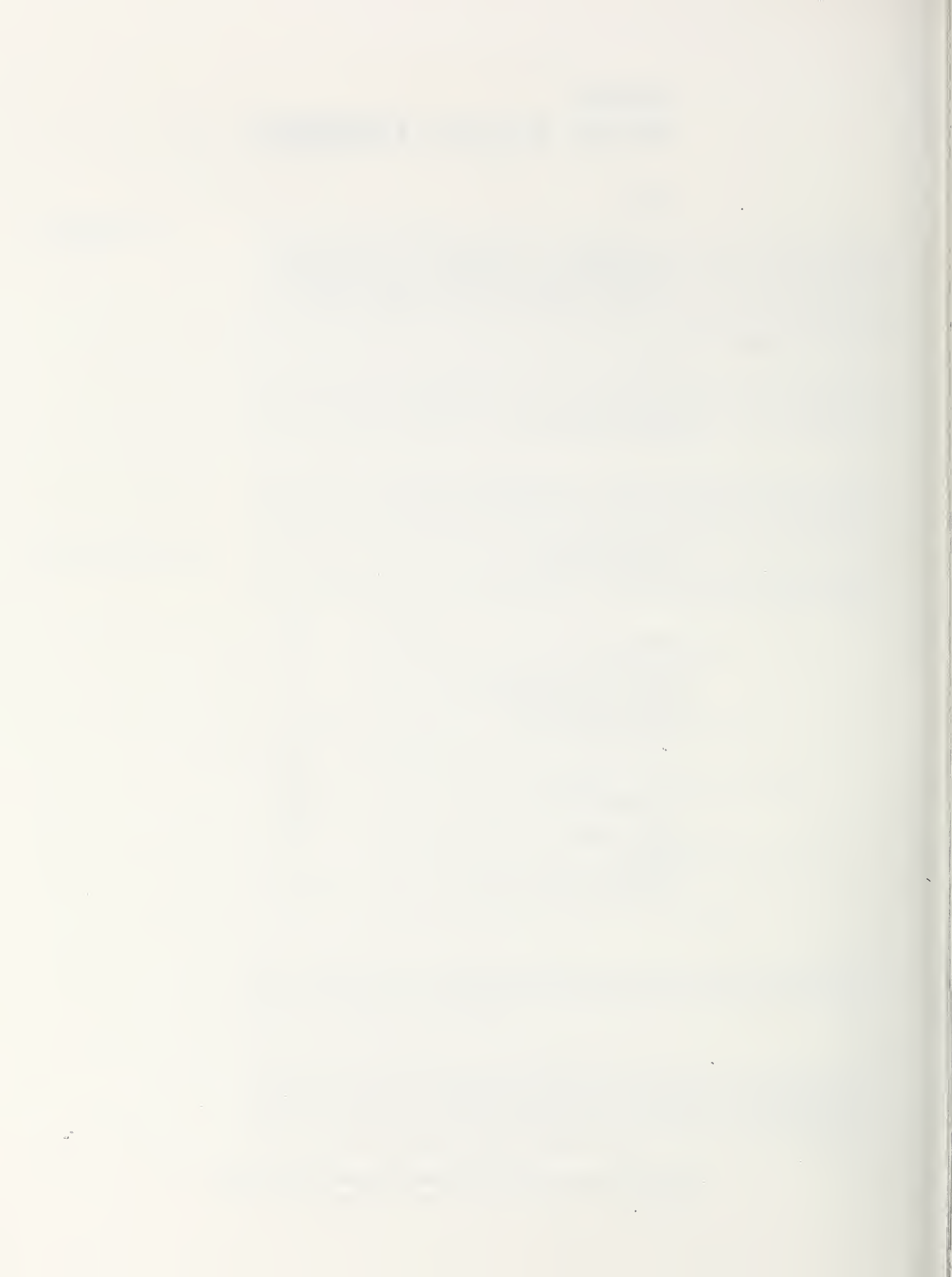
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Soil Conservation Service
Snow Surveys
3244 Elder Street, Room 124
Boise, ID 83705

GENERAL OUTLOOK

SUMMARY:

GOOD PRECIPITATION ACROSS MOST OF IDAHO FOR THE THIRD CONSECUTIVE MONTH IMPROVED THE WATER SUPPLY OUTLOOK FOR THE COMING SUMMER. SNOWMELT PEAK FLOWS IN IDAHO'S MAJOR RIVERS OCCURRED DURING THE LAST WEEK OF MAY. GOOD FLOW VOLUMES SHOULD PERSIST INTO MID-JUNE AS THE LAST OF THE SNOWPACK IS DEPLETED IN THE SNAKE HEADWATERS, BOISE, PAYETTE, AND NORTH IDAHO BASINS. RESERVOIR STORAGE IN SOUTHCENTRAL AND SOUTHWESTERN IDAHO REMAIN VERY LOW, AND WATER USERS ARE ENCOURAGED TO KEEP IN TOUCH WITH THEIR WATER DISTRICTS FOR MORE SPECIFIC INFORMATION.

SNOWPACK:

Snow measurements taken at a limited number of sites near June 1 indicate little of the winter's snowpack remains across the southern two-thirds of the state. In the central Idaho mountains, only scattered snowpack remains on north facing and protected areas above 7500 ft. Eastern & southern Idaho snowpacks are virtually depleted in all basins except in the higher elevations above 8000 ft. Some snow remains in the Teton and Henry's Fork Basins along the Wyoming and Montana borders. Snowpacks in the headwater areas of the Snake River in Wyoming are mostly depleted below the 7500 ft level. Sites above this elevation report 30 to 60% of normal snowpack remaining for June 1. In northern Idaho, conditions look somewhat better with 40 to 80% of normal snowpack remaining above 5500 ft elevation. Cool Creek snow course, located in the Clearwater National Forest, reported 56 inches of snow & 26.8 inches of water still remaining on June 1 for the highest reading in the state. Snowmelt progressed slowly during the first 10 days of May as cool wet weather dominated the state. Warm and dry weather returned to Idaho on May 10th and continued for most of the remainder of the month. On May 27, a slow moving low pressure system entered the state bringing much needed precipitation and cooler temperatures. Snowfall was reported in most parts of the state above 6000 ft with the central Idaho mountains receiving up to 9 inches of new snow. Higher elevation areas in the Jarbidge Range south of Twin Falls received as much as 15 inches of snow containing 4 inches of water during the 3-4 day storm period.

PRECIPITATION:

Weather patterns during the month of May were similar to April's patterns. Central Idaho received normal to well above normal precipitation. The perimeters of the state received below normal amounts except in the panhandle, where Porthill received 116% of normal. The northcentral mountains had totals as high as 136% (Pierce), while Lewiston registered only 64%. In southern Idaho, Boise received 110%, Idaho City 108%, but Parma only received 70% of normal rainfall for the month. South central Idaho reported the highest totals in the state, with Twin Falls receiving 170% of average. The southeast corner of the state was the big loser for the second month in a row, with Idaho Falls at only 44% and Aberdeen receiving 50% of average rainfall. Temperatures for the month averaged a little above normal in the north and near normal in the south. Bonners Ferry was the state's hot spot with a 2.1 degree departure above average. Salmon was 1.7 degrees above normal for the month, Boise plus 0.5, and Pocatello plus 0.2 degrees. Twin Falls was the anomaly with a departure of minus 3.0 degrees from May's average temperature.

RESERVOIRS:

Current reservoir levels range from a low of only 16% of average in Magic Reservoir to a high of 128% in Palisades Reservoir, with 24 key reservoirs across the state reporting a combined storage of 94% of average. Storages in eastern Idaho and on the Snake River mainstem look good with levels ranging from 82 to 128% of average and 71 to 105% of capacity. Southcentral and southwestern Idaho reservoirs report the lowest storage levels ranging from only 16% of average (14% of capacity) in Magic Reservoir to 88% of normal in Little Wood Reservoir. Combined storage on the Boise reservoir system is 70% of normal. Other reservoirs with very low levels include Oakley at 43% of normal storage, Salmon Falls at 65%, and Owyhee Reservoir at 38% of normal storage. Most of these reservoirs are now being drafted to meet user demands. Storage levels in the northern part of the state are generally good, ranging from 80 to 99% of average.

STREAMFLOW:

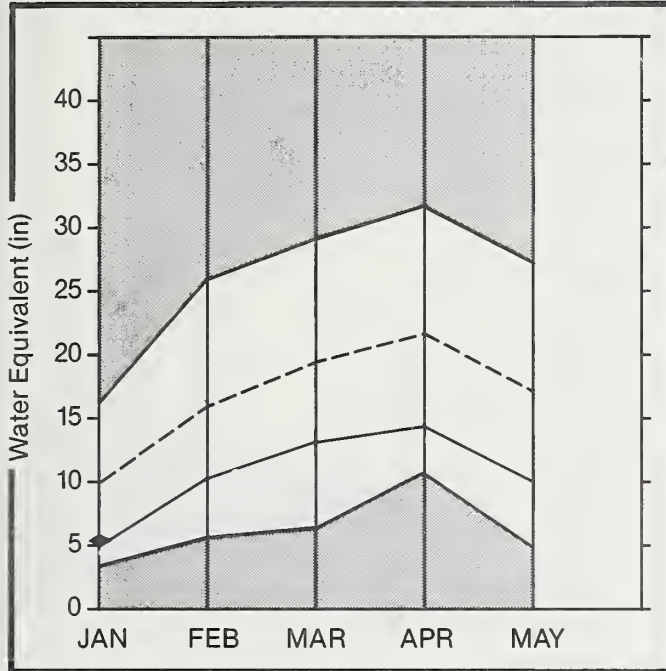
Near to above normal precipitation during May brightened Idaho's water supply picture by improving runoff volumes and reducing user demands. May streamflow volumes, however, remained below to well below normal throughout the state. The lowest streamflow volumes were reported in the lower elevation basins across southern Idaho where flows generally ranged from only 15 to 30% of normal. The higher basins in the central Idaho mountains fared somewhat better during the month but remained well below average, ranging from 45-70% of normal flow. The high elevation basins of northern and eastern Idaho reported the best flows for May, ranging from 65 to 85% of average. Most low elevation streams across southern Idaho reached peak flow conditions in early March and have since receded to low flow conditions. A brief period of above normal temperatures in mid-April produced significant snowmelt and most streams responded with increased flows. However, unusually cool temperatures in late April and early May delayed further snowmelt and runoff until near the middle of May. Moderate temperatures between May 10 and May 27 brought most higher elevation basin streams in Idaho to peak flow conditions between the 25th and 27th of the month. May ended with cooler temperatures and receding streamflows. As of June 1, insufficient snowpacks remain to produce flows higher than those observed in late May. However, the Snake River mainstem, Boise River, Payette River, and most streams in the northern part of the state should maintain good flow volumes until mid-June as the last of the snowpack is depleted.

RECREATIONAL OUTLOOK:

Peak flows on Idaho's major recreational rivers and streams occurred during the last week of May. The cool weather of spring has prolonged Idaho's mountain snowmelt. Therefore, Idaho's major floating streams, the Main and Middle Forks of the Salmon, the Hells Canyon of the Snake, and the Selway, can expect higher levels of water over a longer period of time. As the water levels reach lower flows in July, recreationists may have to adjust launch points on the Middle Fork of the Salmon and the Selway. Otherwise, the summer floating season of 1988 is shaping up to be better than that of 1987.

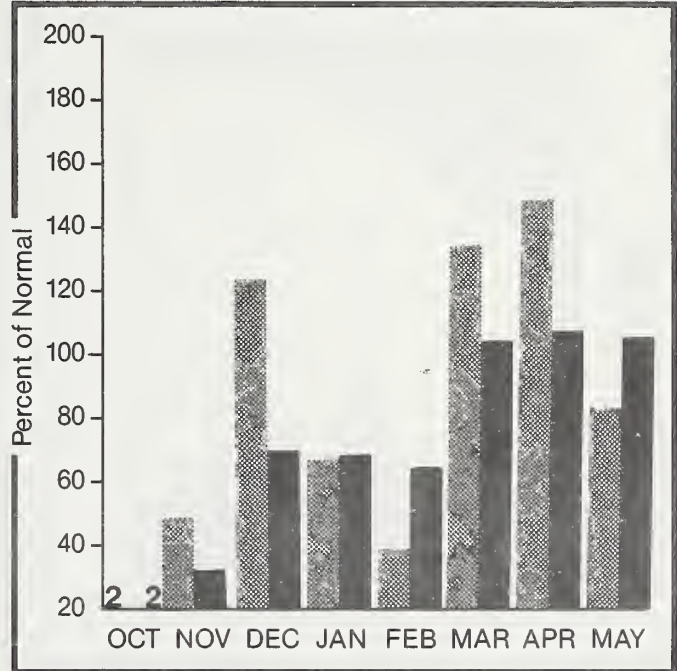
Upper Columbia Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

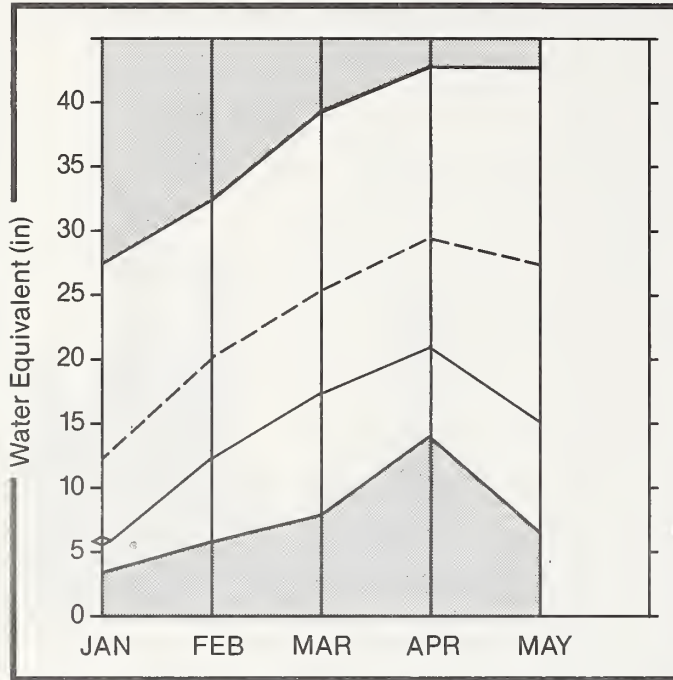
Maximum Average Minimum Current Monthly precipitation Year to date precipitation

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		
		THIS YEAR	LAST YEAR	AVG.
HUNGRY HORSE	3451.0	1630.0	3264.0	2663.0
FLATHEAD LAKE	1791.0	1480.0	1596.0	1468.0
PEND OREILLE	1561.2	1262.3	1405.4	1278.5
NOXON RAPIDS	335.0	321.6	328.0	270.4
COEUR D'ALENE	291.2	282.2	280.2	353.9
PRIEST LAKE	97.7	105.8	99.8	123.5

Clearwater and Salmon River Basin

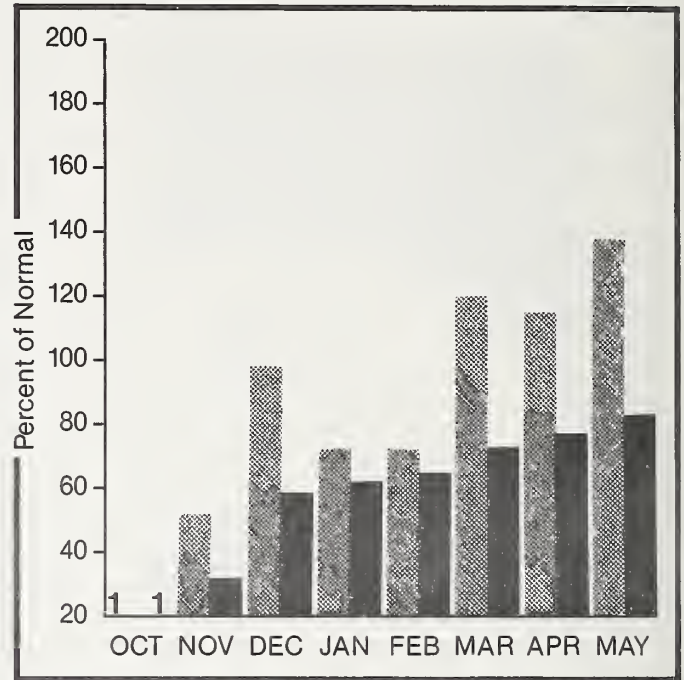
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

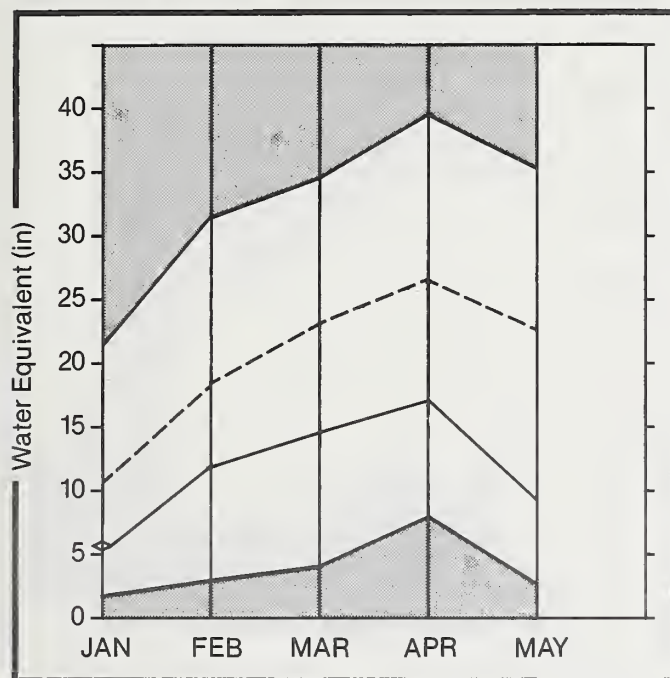
Monthly precipitation Year to date precipitation

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE I	** USEABLE STORAGE **		
	CAPACITY I	THIS	LAST	AVG.
	I	YEAR	YEAR	
DWORSHAK	3467.8	2763.6	3389.0	2987.3

Weiser, Payette, and Boise River Basin

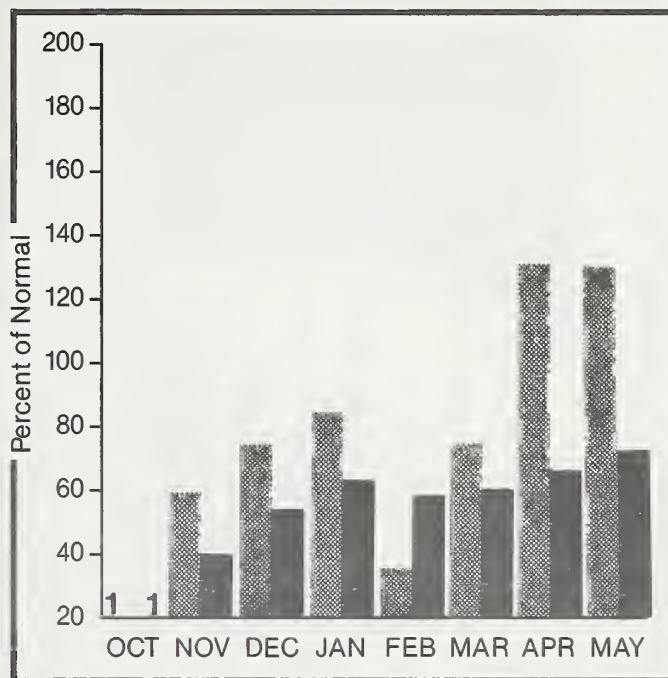
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

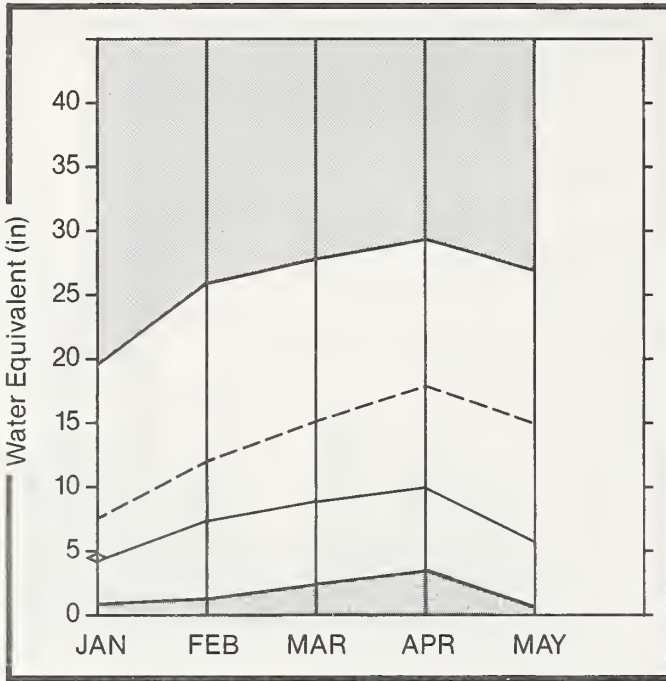
Monthly precipitation Year to date precipitation

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.
MANN CREEK	11.3	7.3	9.6	10.8
CASCADE	703.2	541.8	629.5	548.7
DEADWOOD	162.0	122.0	142.6	136.2
ANDERSON RANCH	464.2	241.1	395.2	413.3
ARROWROCK	286.6	66.1	120.2	216.3
LUCKY PEAK	307.0	294.4	293.8	225.9
LAKE LOWELL (DEER FLAT)	177.0	110.0	139.5	159.0

Big Wood, Little Wood, Big Lost, and Little Lost River Basin

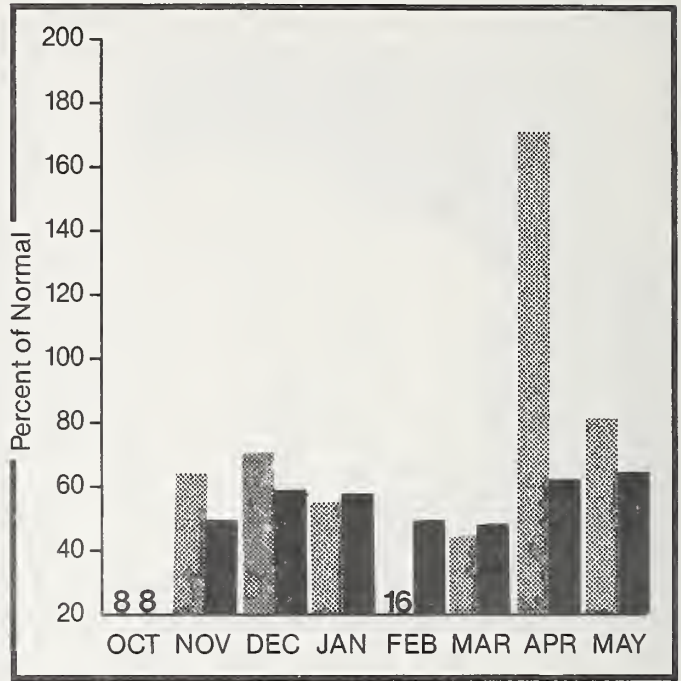
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

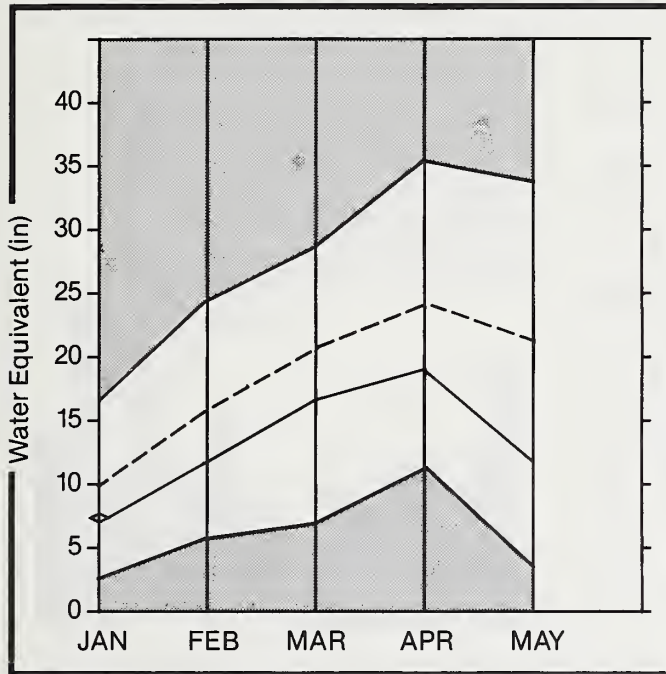
Monthly precipitation Year to date precipitation

RESERVOIR STORAGE (1000AF)




RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		
		THIS YEAR	LAST YEAR	AVG.
MAGIC	191.5	27.4	121.4	173.8
LITTLE WOOD	30.0	24.7	28.0	28.0
CAREY VALLEY	14.4	4.5	5.8	---
MACKAY	44.5	27.7	45.0	33.6

Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

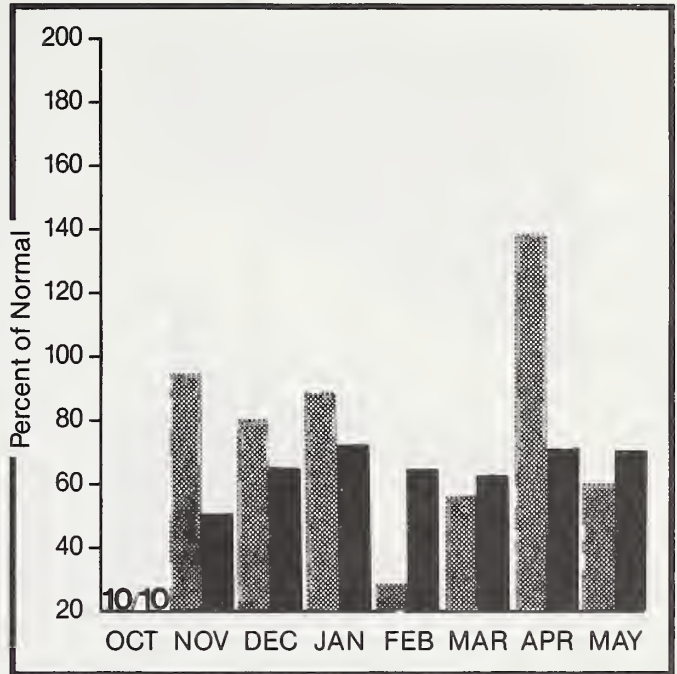
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



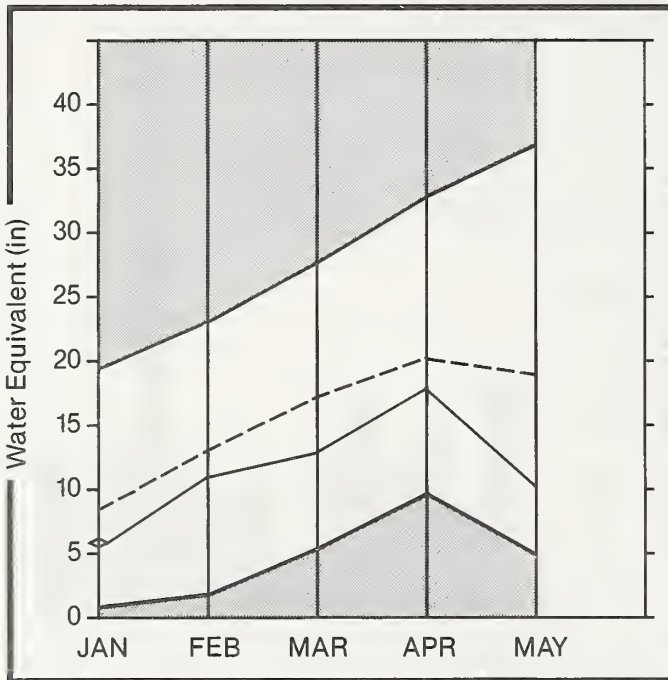
*Based on selected stations

Monthly precipitation  Year to date precipitation 





RESERVOIR STORAGE (1000AF)	USEABLE CAPACITY	** USEABLE STORAGE **		
		THIS YEAR	LAST YEAR	AVG.
ISLAND PARK	127.6	134.0	136.0	134.4
GRASSY LAKE	15.2	13.3	15.2	13.5
JACKSON LAKE	624.4	271.9	284.2	567.9
PALISADES	1357.0	1277.4	1352.2	993.9
AMERICAN FALLS	1700.0	1276.3	1426.4	1519.3
BROWNLEE	975.3	884.3	902.9	756.8
BLACKFOOT	348.7	269.6	311.8	309.5
HENRY'S LAKE	90.4	87.1	90.0	84.6
RIRIE	96.5	68.9	72.1	83.9

Southside Snake River Basin

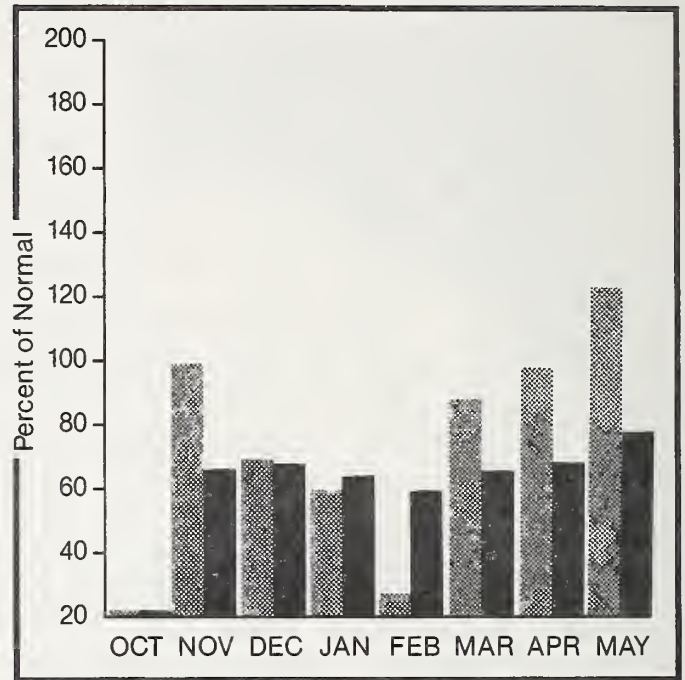
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

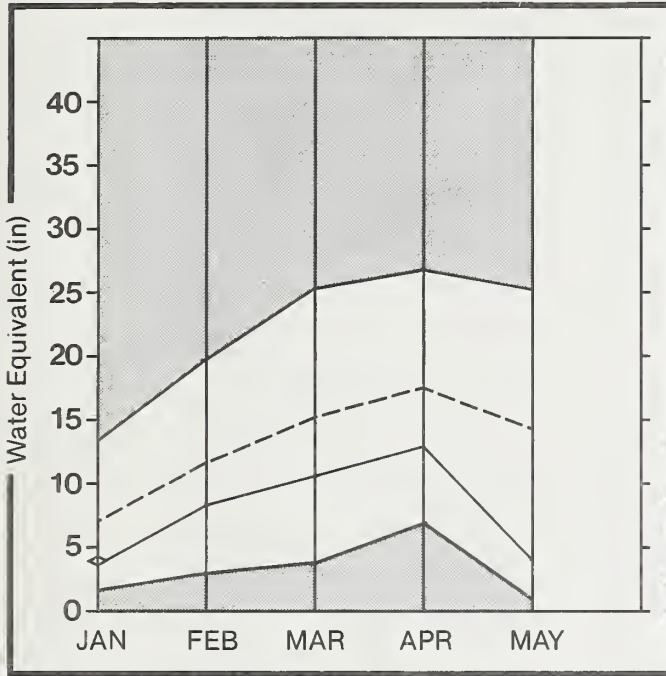
Monthly precipitation  Year to date precipitation 

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		
		THIS YEAR	LAST YEAR	AVG.
OAKLEY	77.4	18.2	31.1	42.7
SALMON FALLS	182.6	61.8	88.4	94.9
OWYHEE	715.0	225.5	459.0	599.6

Great Basin

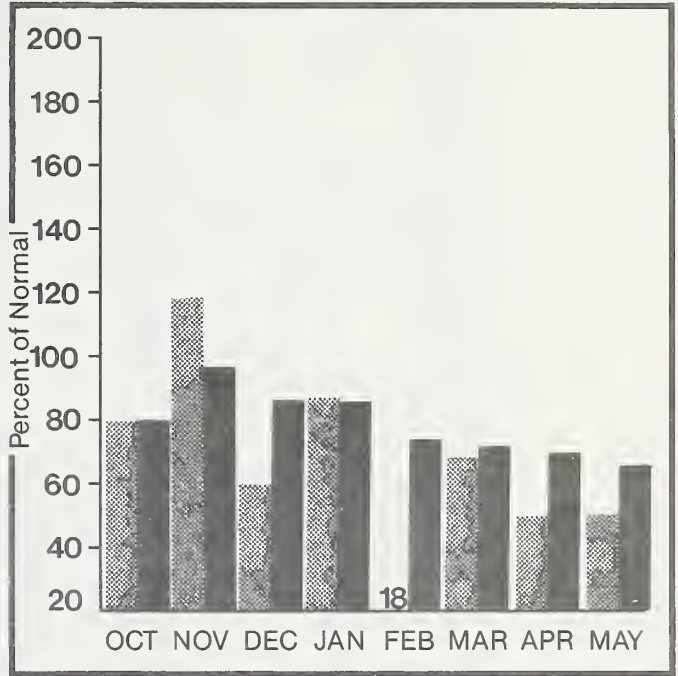
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

RESERVOIR STORAGE

(1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		
		THIS YEAR	LAST YEAR	AVG.
BEAR LAKE	1421.0	1160.2	1128.0	1145.5
MONTPELIER CREEK	4.0	2.9	3.4	3.4

SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
UPPER COLUMBIA BASIN			WATERSHED I			
BEAR MOUNTAIN	5400	6/01/88	---	18.0E	13.7	38.8
BEAR MTN PILLOW	5400	6/01/88	---	18.0	13.4	39.4
BREEZY SADDLE	5010	5/26/88	0	.0	.0	--
GRANITE PEAK	6000	5/26/88	33	16.5	.0	30.3
HUMBOLDT GLCH PILLOW	4250	6/01/88	---	.0	.0	.0
LOOKOUT	5140	5/30/88	0	.0	.0	12.1
LOOKOUT PILLOW	5140	6/01/88	---	.0	.0	12.4
LOST LAKE	6110	5/26/88	44	23.1	7.4	44.7
MOSQUITO RIDGE	5200	6/01/88	---	.0E	.0	1.3
MOSQUITO PILLOW	5200	6/01/88	---	.0	.0	16.2
SCHWEITZER BASIN	6090	6/02/88	30	16.1	10.9	25.1
SCHWEITZER BN PILLOW	6090	6/01/88	---	17.6	8.6	26.1
SCHWEITZER BOWL	4800	6/02/88	0	.0	.0	2.4
SCHWEITZER RIDGE	6200	6/02/88	14	7.5	9.2	30.0
SHERWIN PILLOW	3200	6/01/88	---	.0	.0	.0
SUNSET	5540	6/01/88	---	10.5E	.0	18.1
SUNSET PILLOW	5540	6/01/88	---	10.3	.0	19.7
CLEARWATER AND SALMON BASINS			WATERSHED II			
BANNER SUMMIT	7040	5/31/88	5	.6	.0	11.6
BANNER SUMMIT PILLOW	7040	6/01/88	---	.5	.0	11.2
BEAR BASIN PILLOW	5350	6/02/88	---	.0	.0	.0
BIG CREEK SUMMIT	6580	5/26/88	7	3.5	.0	19.7
BIG CREEK SUM PILLOW	6580	6/01/88	---	1.6	.0	18.7
BREEZY SADDLE	5010	5/26/88	0	.0	.0	--
COOL CREEK	6250	5/26/88	56	26.8	10.0	32.2
COOLWATER MOUNTAIN	6030	5/26/88	23	11.7	.0	17.6
CRATER MEADOWS	5960	5/26/88	21	15.5	.0	31.0
CRATER MDWS PILLOW	5960	6/01/88	---	6.5	.0	34.0
DEADWOOD SUMMIT	6860	5/31/88	13	4.8	.0	24.8
DEADWOOD SUM PILLOW	6860	6/01/88	---	7.1	.0	26.8
ELK BUTTE	5550	5/26/88	0	.0	.0	9.8
ELK BUTTE PILLOW	5550	6/01/88	---	.8	.0	22.1
GALENA SUMMIT	8780	6/02/88	6	1.5	.0	13.5
GALENA SUMMIT PILLOW	8780	6/06/88	---	.9	.0	11.6
GIBBONS PASS	7100	5/31/88	12	1.2	.0	9.8
GOAT LAKE	6500	5/26/88	54	28.2	.0	36.5
GRANITE PEAK	6000	5/26/88	33	16.5	.0	30.3
HEMLOCK BUTTE	5810	5/26/88	10	4.8	.0	29.6
HEMLOCK BUTTE PILLOW	5810	6/01/88	---	7.6	.0	31.8
HOODOO BASIN	6050	5/27/88	41	22.6	4.5	35.0
HOODOO CREEK	5900	5/27/88	40	20.8	2.8	34.7
LOLO PASS	5240	6/01/88	---	.4E	.0	.0
LOLO PASS PILLOW	5240	6/01/88	---	.6	.0	.0
LOST LAKE	6110	5/26/88	44	23.1	7.4	44.7
MEADOW LAKE PILLOW	9150	6/01/88	---	.3	.0	13.3
MILL CREEK SUMMIT	8800	6/01/88	---	6.1E	.0	13.5
MILL CREEK ST PILLOW	8800	6/01/88	---	5.9	.0	12.7
MOONSHINE	7440	6/01/88	---	.0E	.0	.0
MOONSHINE PILLOW	7440	6/01/88	---	.0	.0	.0
MOOSE CREEK	6200	6/01/88	---	.0E	.0	.0
MOOSE CR PILLOW	6200	6/01/88	---	.0E	.0	.0
MORGAN CREEK	7600	6/01/88	---	1.3E	.0	.0
MORGAN CREEK PILLOW	7600	6/01/88	---	1.3	.0	.0
MOUNTAIN MEADOWS	6360	6/01/88	---	1.1E	.0	9.5
MOUNTAIN MDWS PILLOW	6360	6/01/88	---	7.9	.0	14.4
NEZ PERCE PASS	6570	5/30/88	3	.4	--	--
SAVAGE PASS	6170	6/01/88	---	3.6E	.0	17.4
SAVAGE PASS PILLOW	6170	6/01/88	---	3.9	.4	18.0
SECESH SUMMIT	6520	5/27/88	0	.0	.0	13.3
SECESH SUMMIT PILLOW	6520	6/01/88	---	.0	.0	16.0
SHANGHAI SUMMIT	4570	5/26/88	0	.0	.0	.0
SHANGHAI SUM PILLOW	4570	6/01/88	---	.0	.0	.0
SHERWIN PILLOW	3200	6/01/88	---	.0	.0	.0
SQUAW MEADOW	5900	5/27/88	0	.0	.0	10.9
VIENNA MINE	8960	5/31/88	23	6.8	.0	28.7
VIENNA MINE PILLOW	8960	6/01/88	---	10.9	.0	30.1
WEST BRANCH	5560	6/01/88	---	.0E	--	.0
WEST BRANCH PILLOW	5560	6/01/88	---	.0	.0	.0

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
WEISER, PAYETTE AND BOISE BASINS				WATERSHED III		
ATLANTA SUMMIT	7600	5/31/88	18	7.1	.0	20.8
ATLANTA SUM PILLOW	7580	6/01/88	---	2.1	.0	19.7
ATLANTA TOWNSITE	5370	6/01/88	---	.0E	.0	--
BANNER SUMMIT	7040	5/31/88	5	.6	.0	11.6
BANNER SUMMIT PILLOW	7040	6/01/88	---	.5	.0	11.2
BEAR BASIN PILLOW	5350	6/02/88	---	.0	.0	.0
BEAR SADDLE PILLOW	6180	6/01/88	---	.0	.0	.0
BENNETT MOUNTAIN	6560	6/01/88	---	.0E	.0	.0
BIG CREEK SUMMIT	6580	5/26/88	7	3.5	.0	19.7
BIG CREEK SUM PILLOW	6580	6/01/88	---	1.6	.0	18.7
BOGUS BASIN	6340	6/01/88	---	.0E	.0	3.9
BRUNDAGE RESV PILLOW	4500	6/01/88	---	.1	.0	--
COZY COVE	5380	6/01/88	---	.0E	.0	.3
COZY COVE PILLOW	5380	6/01/88	---	.0	.0	.0
DEADWOOD AIRSTRIP	5360	6/01/88	---	.0E	--	--
DEADWOOD SUMMIT	6860	5/31/88	13	4.8	.0	24.8
DEADWOOD SUM PILLOW	6860	6/01/88	---	7.1	.0	26.8
DOLLARHIDE SUMMIT	8420	5/31/88	6	1.5	.0	15.3
JACKSON PEAK	7070	5/31/88	6	1.1	.0	11.5
JACKSON PEAK PILLOW	7070	6/01/88	---	1.2	.0	12.0
LAKE FORK	5290	5/26/88	0	.0	.0	.3
MOORES CREEK SUMMIT	6100	6/01/88	---	.0E	.0	11.7
MOORES CK SUM PILLOW	6100	6/01/88	---	.0	.0	12.3
PRAIRIE PILLOW	4800	6/01/88	---	.0	.0	.0
SECESH SUMMIT	6520	5/27/88	0	.0	.0	13.3
SECESH SUMMIT PILLOW	6520	6/01/88	---	.0	.0	16.0
SOLDIER R.S.	5740	6/01/88	---	.0E	.0	.0
SOLDIER R.S. PILLOW	4330	6/01/88	---	.0	.0	--
SQUAW FLAT	6240	6/01/88	---	.0E	.0	.0
SQUAW FLAT PILLOW	6240	6/01/88	---	.0	.0	.0
SQUAW MEADOW	5900	5/27/88	0	.0	.0	10.9
TRINITY MOUNTAIN	7770	5/31/88	13	5.4	.0	26.6
TRINITY MTN. PILLOW	7770	6/01/88	---	9.6	.0	29.7
VIENNA MINE	8960	5/31/88	23	6.8	.0	28.7
VIENNA MINE PILLOW	8960	6/01/88	---	10.9	.0	30.1
WEST BRANCH	5560	6/01/88	---	.0E	--	.0
WEST BRANCH PILLOW	5560	6/01/88	---	.0	.0	.0
BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST BASINS				WATERSHED IV		
BEAR CANYON PILLOW	7900	6/01/88	---	.0	.0	.0
BENNETT MOUNTAIN	6560	6/01/88	---	.0E	.0	.0
DOLLARHIDE SUMMIT	8420	5/31/88	6	1.5	.0	15.3
GALENA	7440	6/01/88	---	.0E	--	1.3
GALENA PILLOW	7440	6/01/88	---	.1	.0	7.5
GALENA NEW	7470	6/02/88	0	.0	.0	7.5
GALENA SUMMIT	8780	6/02/88	6	1.5	.0	13.5
GALENA SUMMIT PILLOW	8780	6/06/88	---	.9	.0	11.6
GARFIELD R.S.	6560	6/01/88	---	.0E	.0	.0
GARFIELD R.S. PILLOW	6560	6/01/88	---	.0	.0	.0
HILTS CREEK	8000	6/01/88	---	.0E	.0	.0
HILTS CREEK PILLOW	8000	6/01/88	---	.0	.0	.0
HYNDMAN CREEK	7440	6/01/88	---	.0E	.0	.0
HYNDMAN PILLOW	7440	6/01/88	---	.0	.0	.0
LOST-WOOD DVD PILLOW	7900	6/01/88	---	.0	.0	7.7
MOONSHINE	7440	6/01/88	---	.0E	.0	.0
MOONSHINE PILLOW	7440	6/01/88	---	.0	.0	.0
MULDOON	6320	6/01/88	---	.0E	--	--
SOLDIER R.S.	5740	6/01/88	---	.0E	.0	.0
SOLDIER R.S. PILLOW	4330	6/01/88	---	.0	.0	--
STICKNEY MILL	7430	6/01/88	---	.0E	.0	.0
STICKNEY MILL PILLOW	7430	6/01/88	---	.0	.0	.0
SWEDE PEAK	7640	6/01/88	---	.0E	.0	1.3
SWEDE PEAK PILLOW	7640	6/01/88	---	.1	.0	.0
VIENNA MINE	8960	5/31/88	23	6.8	.0	28.7
VIENNA MINE PILLOW	8960	6/01/88	---	10.9	.0	30.1

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
WILLOW, BLACKFOOT, UPPER SNAKE AND PORTNEUF BASINS				WATERSHED V		
BIRCH CREEK	6800	6/01/88	---	.0E	.0	--
BLUE LEDGE MINE	6900	6/01/88	---	.0E	.0	--
BLUE RIDGE	6780	6/01/88	---	.0E	.0	--
BONE	6200	6/01/88	0	.0	--	--
BROCKMAN STATION	6430	6/01/88	---	.0E	.0	--
COULTER CREEK	7020	6/01/88	---	.0E	.0	.0
COULTER CREEK PILLOW	7020	6/01/88	---	.0	.0	.0
CRAB CREEK	6860	6/01/88	---	.0E	.0	.0
CRAB CREEK PILLOW	6860	6/01/88	---	.0	.0	.0
FALL CREEK	6820	6/01/88	---	.0E	.0	--
GRASSY LAKE	7270	5/31/88	0	.0	.0	15.4
GRASSY LAKE PILLOW	7270	6/01/88	---	.0	.0	16.1
ISLAND PARK	6290	6/01/88	---	.0E	.0	.0
ISLAND PARK PILLOW	6290	6/01/88	---	.0	.0	.0
MC RENOLDS RESERVOIR	6720	6/01/88	---	.0E	--	--
MUD CREEK	7100	6/01/88	---	.0E	.0	--
PHILLIPS BENCH	8200	6/01/88	---	11.1E	.0	19.9
PINE CREEK PASS	6810	6/01/88	---	.0E	.0	1.7
SHEEP MOUNTAIN	6570	6/01/88	---	.0E	.0	.0
SHEEP MTN PILLOW	6570	6/01/88	---	.0	.0	.0
SLUG CREEK DIVIDE	7230	6/01/88	---	.0E	.0	.0
SLUG CK DVD PILLOW	7230	6/01/88	---	.0	.0	.0
SOMSEN RANCH	6840	6/01/88	---	.0E	.0	.0
SOMSEN RANCH PILLOW	6800	6/01/88	---	.0	.0	.0
STATE LINE	6660	6/01/88	---	.0E	.0	--
WHITE ELEPHANT PILL	7710	6/01/88	---	.0	.0	17.0
WILDHORSE DIVIDE	6490	6/01/88	---	.0E	--	.0
WILDHORSE DVD PILLOW	6490	6/01/88	---	.0	.0	.0
SOUTHSIDE SNAKE BASIN				WATERSHED VI		
BEAR CREEK	7800	6/01/88	---	2.7E	.0	5.3
BEAR CK SNOTEL	7800	6/01/88	---	2.6	.0	13.2
BOSTETTER R.S.	7500	6/01/88	---	.0E	.0	.0
BOSTETTER RS PILLOW	7500	6/01/88	---	.0	.0	.0
GOAT CREEK	8800	6/01/88	---	2.3E	.0	12.7
HOWELL CANYON	7980	6/01/88	---	.0E	.0	.0
HOWELL CANYON PILLOW	7980	6/01/88	---	.0	.0	.0
MAGIC MOUNTAIN	6880	6/01/88	---	1.7E	.0	.0
MAGIC MTN PILLOW	6880	6/01/88	---	1.8	.0	.0
MUD FLAT	5730	6/01/88	---	.0E	.0	.0
MUD FLAT PILLOW	5730	6/01/88	---	.0	.0	.0
POLE CREEK R.S.	8330	6/01/88	---	2.7E	.0	13.2
SOUTH MTN PILLOW	6500	6/01/88	---	.0	.0	.0
GREAT BASIN				WATERSHED VII		
EMIGRANT SUMMIT	7390	6/01/88	---	.0E	.0	8.9
EMIGRANT SUM PILLOW	7390	6/01/88	---	.0	.0	15.0
GIVEOUT	6860	6/01/88	---	.0E	--	.0
GIVEOUT PILLOW	6840	6/01/88	---	.0	.0	.0
OXFORD SPRING PILLOW	6740	6/01/88	---	.0	.0	.0

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State	Idaho Department of Water Resources Soil and Water Conservation Districts of Idaho
Federal	U.S. Department of Agriculture Forest Service U.S. Department of Army Corps of Engineers U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey, Water Resources Division Shoshone-Bannock Tribal Council
Local	Big Lost River Irrigation District Big Wood Irrigation Company Boise Project Board of Control Idaho Water District #01 Lewiston Orchards Irrigation District Little Wood River Irrigation District North Board of Control — Owyhee Project Salmon Falls Irrigation Company South Board of Control — Owyhee Project
Private	Cyprus Mining Company FMC Corporation Idaho Power Company Le Bois Resort Washington Water Power Company
	Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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